

IN THE CLAIMS:

This listing of the claims replaces all prior versions and listings of the claims in this application.

The text of all pending claims (including any withdrawn claims) is set forth below. Canceled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (Original), (Currently amended), (Canceled), (Withdrawn), (Previously presented), (New), and (Not entered).

Please AMEND claims 1-4, CANCEL claims 5-22 without prejudice or disclaimer, and ADD new claims 23-45 in accordance with the following:

1. (Currently amended) A data storage medium usable with a reproducing apparatus, comprising:

AV data; and

mark-up documents providing functionality enabling the reproducing apparatus to reproduce the AV data in an interactive mode, mode;

wherein ~~among the mark-up documents, documents comprise~~ a start-up document ~~comprises comprising~~ information about other ones of the mark-up documents corresponding to different parental levels to be displayed ~~according to~~ depending on a set parental level.

2. (Currently amended) The data storage medium of claim 1, wherein ~~the information of the start-up document~~ further comprises:

meta-information of ~~a indicating a parental level, level; and~~

~~where the set parental level and link information on one of indicating the other mark-up documents correspond~~ corresponding to the different parental levels, level in the meta-information.

3. (Currently amended) The data storage medium of claim 2, wherein the link information comprises:

~~link information of indicating one of the other mark-up documents that is to be displayed~~
when the set parental level is higher not lower than the parental level in the meta-information;
and

~~link information of indicating another one of the other mark-up documents that is to be~~
displayed when the set parental level is less lower than the parental level ~~in indicated by the~~
meta-information.

4. (Currently amended) The data storage medium of claim 1, wherein the information of
~~the start-up document is about the other mark-up documents corresponding to the different~~
parental levels comprises link information indicating a path of one respective paths of the other
mark-up documents corresponding to the set different parental level levels.

5.-22 (Canceled)

23. (New) A method of reproducing AV data in an interactive mode, comprising:
identifying a set parental level;
selecting a mark-up document corresponding to the set parental level from a plurality of
mark-up documents corresponding to different parental levels; and
reproducing the AV data in the interactive mode using the selected mark-up document
corresponding to the set parental level;
wherein the identifying, the selecting, and the reproducing are performed in a
reproducing apparatus.

24. (New) The method of claim 23, wherein the selecting of the mark-up document
comprises:
identifying a parental level from meta-information in a mark-up document designated as a
start-up document; and
selecting the mark-up document based on a result of comparing the parental level
identified from the meta-information with the set parental level.

25. (New) The method of claim 24, wherein the selecting of the mark-up document
comprises selecting a mark-up document displaying a warning message indicating that

interactive content cannot be displayed when the parental level identified from the meta-information is not lower than the set parental level.

26. (New) A method of displaying a mark-up document according to a parental level, comprising:

- identifying a value of each of a plurality of elements of the mark-up document;
- individually determining whether to display each of the elements depending on the value of each of the elements and display rule information; and
- interpreting the mark-up document to display the mark-up document based on a result of the individually determining;

wherein the identifying, the individually determining, and the interpreting are performed in a reproducing apparatus.

27. (New) An apparatus to reproduce AV data from a data storage medium in an interactive mode using a mark-up document, comprising:

- a reader to read the mark-up document and the AV data from the data storage medium;
- an AV decoder to decode the AV data;
- a presentation engine to identify a value of each of a plurality of elements of the mark-up document, individually determine whether to display each of the elements depending on the values of the elements and display rule information, and interpret the mark-up document based on a result of the individually determining; and
- a blender to blend the mark-up document interpreted by the presentation engine and an AV screen obtained by reproducing the AV data.

28. (New) The apparatus of claim 27, wherein the display rule information is written according to Cascading Style Sheets (CSS) rules.

29. (New) The apparatus of claim 28, wherein the display rule information is written in a form of a Cascading Style Sheets (CSS) file.

30. (New) An apparatus to reproduce data from a data storage medium, comprising:
a reader to read desired data from the data storage medium; and

a controller to output a control signal to the reader to control the reader to read AV data and a mark-up document from the data storage medium, the mark-up document comprising interactive contents corresponding to a plurality of different parental levels;

wherein, in an interactive mode, the controller interprets the mark-up document according to a parental level set by the user.

31. (New) The apparatus of claim 30, further comprising:
an AV decoder to decode the AV data; and
a blender to blend a mark-up document screen obtained by interpreting the mark-up document and an AV screen obtained by decoding the AV data.

32. (New) The apparatus of claim 30, wherein:
the mark-up document defines a display window; and
the apparatus further comprises a blender to blend the AV data with the mark-up document so that the AV data is displayed in the display window defined by the mark-up document.

33. (New) The apparatus of claim 30, wherein the controller comprises plug-ins.

34. (New) The apparatus of claim 30, wherein the controller retrieves the mark-up document through a network.

35. (New) The apparatus of claim 30, wherein the parental level set by the user is one of five different parental levels G, PG, PG13, R, and NC-17 defined by a data storage medium-video standard for compatibility.

36. (New) The apparatus of claim 30, wherein:
the controller reproduces the AV data according to a data storage medium-video standard in the interactive mode; and
the different parental levels of the interactive contents of the mark-up document are defined by the data storage medium-video standard for compatibility.

37. (New) The apparatus of claim 30, wherein the controller uses an application program interface (API) to identify the parental level set by the user.

38. (New) The apparatus of claim 30, wherein the mark-up document is a start-up document comprising:

meta-information indicating a parental level; and

link information indicating a path of a mark-up document corresponding to the parental level indicated by the meta-information, and a path of a mark-up document not corresponding to the parental level indicated by the meta-information.

39. (New) The apparatus of claim 38, wherein the controller interprets the link information to retrieve the mark-up document corresponding to the parental level indicated by the meta-information when the parental level set by the user is higher than the parental level indicated by the meta-information, and to retrieve the mark-up document not corresponding to the parental level indicated by the meta-information when the parental level set by the user is not higher than the parental level indicated by the meta-information.

40. (New) The apparatus of claim 30, wherein:

the mark-up document is a start-up document comprising meta-information and link information; and

the controller identifies the parental level set by the user using an application program interface (API), and interprets the mark-up document using the meta-information and the link information according to the parental level set by the user.

41. (New) The apparatus of claim 30, wherein the data storage medium comprises a root directory comprising:

a video directory in which the AV data is stored; and

an interactive directory in which the mark-up document is stored.

42. (New) The apparatus of claim 30, wherein the mark-up document comprises mark-up document information indicating whether the parental level set by the user is lower or not

lower than each of the plurality of parental levels of the interactive contents of the mark-up document.

43. (New) The apparatus of claim 30, wherein the mark-up document comprises a Cascading Style Sheets (CSS) file.

44. (New) The apparatus of claim 30, wherein a Cascading Style Sheets (CSS) file provided for the mark-up document is stored on the data storage medium separately from the mark-up document.

45. (New) The apparatus of claim 30, wherein the mark-up document is written using a script language to represent the interactive contents corresponding to the plurality of different parental levels.